JUL 1 3 2005

#### **PATENT**

# INITED STATES PATENT AND TRADEMARK OFFICE

**Applicant** 

Douglas B. Fisher et al.

Serial No.

10/574,767

Group Art Unit:

Filing Date:

October 12, 2004

Examiner:

Title:

A METHOD OF CHARACTERIZING A

**DISPERSION USING TRANSFORMATION** 

**TECHNIQUES** 

Entity Status: Large Entity

Our Docket:

RR-613 PCT/US

#### CERTIFICATE UNDER 37 CFR 1.8 (a)

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

> Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on July 11, 2006

Attorney For Applicant

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

literature documents are enclosed.

## INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 CFR 1.56, enclosed is a completed Form PTO-1449 listing the U.S. and foreign patent documents and non-patent literature documents cited by Applicant. Copies of the foreign patent and non-patent

Applicant respectfully requests the Examiner to consider all documents listed in the Information Disclosure Statement in the examination of this application.

Since a first Office Action on this patent application has not yet been received, Applicant believes that no fee is chargeable for the filing of this Information Disclosure Statement.

However, should any fee be necessary in connection with the filing of this Information Disclosure Statement, please debit our Deposit Account No. 18-1743.

Respectfully submitted,

Charles B. Rodman, Reg. No. 26,798

Attorney for Applicant

Dated: July 11, 2006

RODMAN & RODMAN 7 South Broadway White Plains, New York 10601

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1047-31 IDS Transmittal

PTO/SB/08A (07-05) Approved for use through 07/31/2006. OMB 0651-0031

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

Complete if Known					
Application Number	10/574,767				
Filing Date	October 12, 2004				
First Named Inventor	Douglas B. Fisher et. al.				
Art Unit	Unknown				
Examiner Name	Unknown				
Attorney Docket Number	RR-613 PCT/US				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,743,339	05-10-1988	Faix et. al.	
		<sup>US-</sup> 4,843,247	06-27-1989	Yamazoe et. al.	
		<sup>US-</sup> 4,940,900	07-10-1990	Lambert	
		<sup>US-</sup> 5,546,792	08-20-1996	Becker	
		<sup>US-</sup> 5,719,665	02-17-1998	Yamazoe	
		<sup>US-</sup> 5,831,721	11-03-1998	Alkafeef	
		<sup>US-</sup> 5,959,194	09-28-1999	Nenniger	
		<sup>US-</sup> 2002/0081742	06-27-2002	Mirotchnik et. al.	
		<sup>US-</sup> 2002/0105645	08-08-2002	Eriksson	
		<sup>US-</sup> 2002/0139929	10-03-2002	Mullins et. al.	
		<sup>US-</sup> 2002/0140925	10-03-2002	Mougin	
		<sup>US-</sup> 2003/0154036	08-14-2003	Gysling et. al.	
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		FORE	IGN PATENT DOCL	IMENTS		-
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
		WO 87/01456	03-12-1987	Marathon Oil		
		WO 92/17767	10-15-1992	Jalkanen		
		WO 97/14953	04-24-1997	Shell International Research		
		WO 99/51963	10-14-1999	Norsk Hydro ASA		
		WO 00/46586	08-10-2000	Jorin Limited		
		WO 01/40771	06-07-2001	APS Technology, Inc. et. al.		

Examiner	Date	
Signature	Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Sheet 2

Complete if Known					
Application Number	10/574,767	_			
Filing Date	October 12, 2004				
First Named Inventor	Douglas B. Fisher et. al.				
Art Unit	Unknown				
Examiner Name	Unknown				
Attorney Docket Number	PR-613 PCT/US	_			

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
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	FORE	IGN PATENT DOCL	JMENTS		_
Cite No.1	Cite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Г
	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	1
	EP 727671	08-21-1996	AT&T Corp.		
	DE 19744246	04-29-1999	Suhr		Г
	GB 2 364 364	01-23-2002	Institut Français du Petrole		Г
	CA 2,254,376	05-25-1999	Hitachi, Ltd.		Г
·	CA 2,337,888	02-17-2000	Exxon Research		Г
	CA 2,443,098	10-24-2002	Cargill, Inc.		Ħ

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Sheet	3	of	4	Attorney Docket Number	RR-613 PCT/US	

U. S. PATENT DOCUMENTS  Examiner   Cite   Document Number   Publication Date   Name of Patentee or   Pages, Columns, Lin						
Initials*	No.1	Bocument Number	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant	
		Number-Kind Code <sup>2 (# known)</sup>			Figures Appear	
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		CA 2,470,477	07-10-2003	Lemmon et. al.		
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Examiner	Date	
Signature	Considered	
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(Use as many sheets as necessary)	Art Unit	Unknown		
lose as many sheets as necessary)	Examiner Name	Unknown		
Sheet 4 of 4	Attorney Docket Number			

	1	NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Initials* No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issurnumber(s), publisher, city and/or country where published.	
		T. Theophanides (ed.), Fourier Transform Infrared Spectroscopy, Reidel Publishing, Boston, 1984, pp 56-64,125-135, 159-166	
		Jamaluddin, A.K.M. et. al., "A Comparison of Various Laboratory Techniques," Society of Petroleum Engineers, SPE Paper No. 72154, 2001	
		A. Turta et. al., "Variation of Oil-Solvent," Special Edition of the Journal of Canadian Petroleum Technology 38, No. 13 Paper: 97-81, 1999	
		Jamaluddin, A.K.M. et. al., "Laboratory Techniques to Measure Thermo," JCPT, July 2002, Vol. 41	
		Takabayaski, Katsumo et. al., Japan Oil, Gas and Metals National Corp., "Interfacial Tension Measurement between Oil and Gas Phases under High Temperature,"undated, 11 pp.	
		D. B. Fisher et. al., "Use of Magnetic Resonance Imaging and Advanced Image Analysis," Society of Petroleum Engineers, SPE Paper No. 59330, 2000	
		Brust, Gregory, "Nuclear Magnetic Resonance Spectroscopy," downloaded from www.psrc.usm.edu/magrog/nmr.htm, 8/15/03, 3 pp.	
		Hornak, J.P. copyright 1997-99, The Basics of NMR, downloaded from www.cis.rit.edu/htbooks/nmr, 8/15/03, 66 pp.	

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Signature	Considered	

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